Emad M A Ahmed

List of Publications by Year
in descending order

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		759233	642732
48	610	12	23
papers	citations	h-index	g-index

48	48	48	580
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Negative series resistance and photo-response properties of Au/PPY-MWCNTs composite/TiO₂/Al₂O₃/n-Si/Al photodiode. Materials Research Express, 2022, 9, 016301.	1.6	3
2	Synthesis, physical, ultrasonic waves, mechanical, FTIR, and dielectric characteristics of B2O3/Li2O/ZnO glasses doped with Y3+ ions. Journal of Materials Science: Materials in Electronics, 2022, 33, 6603-6615.	2.2	10
3	Investigation of the iron doping on the structural, optical, and magnetic properties of Fe-doped ZnO nanoparticles synthesized by solâ€“gel method. Journal of Materials Science: Materials in Electronics, 2022, 33, 6368-6379.	2.2	4
4	Modified 7-Chloro-11H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. Catalysts, 2022, 12, 213.	3.5	9
5	Characterization and performance evaluation of Cu-based/TiO2 nano composites. Scientific Reports, 2022, 12, 6669.	3.3	15
6	Magnetocaloric Effect in Î±'-MnB Nanoparticles. Russian Journal of Physical Chemistry A, 2022, 96, S101-S104.	0.6	9
7	Bio-based antibacterial packaging from decorated bagasse papers with natural rosin and synthesised GO-Ag nanoparticles. Materials Technology, 2022, 37, 2766-2776.	3.0	12
8	Enhanced optical and electrical properties of CeO₂NPs/chitosan nanocomposites. Materials Research Express, 2022, 9, 055305.	1.6	1
9	Fabrication, physical, structure characteristics, neutron and radiation shielding capacityÂof high-density neodymio-cadmium lead-borate glasses: Nd2O3/CdO/PbO/B2O3/Na2O. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	15
10	CeO2-doped bismosiliconate-borotellurite glasses: linear/nonlinear optical properties as well as photon/neutron attenuation effectiveness. Journal of Materials Science: Materials in Electronics, 2022, 33, 14894-14909.	2.2	1
11	Fabrication, physical, FTIR, ultrasonic waves, and mechanical properties of quaternary B2O3â€“Bi2O3â€“NaFâ€“ZrO2 glasses: Experimental study. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	7
12	Tuning the optical and magnetic properties of ZnO by Fe₃O₄. Physica Scripta, 2022, 97, 075815.	2.5	5
13	Fabrication, physical, mechanical properties, gamma-rays, and neutron shielding abilities of sodium bario-fluoride boro-vanadate glasses: experimental, theoretical, and simulation studies. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	6
14	Linear optical characteristics as well as gamma-ray shielding capabilities of quaternary lithium-zinc borate glasses with Y3+ ions. Optical Materials, 2022, 131, 112673.	3.6	13
15	Tuned high dielectric constant, low dielectric loss tangent with positive and negative values for PPy/MWCNTs/TiO₂/Al₂O₃/n-Si. Journal of Experimental Nanoscience, 2021, 16, 309-343.	2.4	3
16	Chitosan-based nanocomposites: preparation and characterization for food packing industry. Materials Research Express, 2021, 8, 025017.	1.6	16
17	Responsibility of Bi2O3 Content in Photon, Alpha, Proton, Fast and Thermal Neutron Shielding Capacity and Elastic Moduli of ZnO/B2O3/Bi2O3 Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3505-3524.	3.7	53
18	Bi2O3 reinforced B2O3â€‰+â€‰Sb2O3â€‰+â€‰Li2O: composition, physical, linear optical characteristics, and photon attenuation capacity. Journal of Materials Science: Materials in Electronics, 2021, 32, 12439-12452.	2.2	8

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19	Development of Alâ€“Mgâ€“Si alloy performance by addition of grain refiner Alâ€“5Tiâ€“1B alloy. Science Progress, 2021, 104, 003685042110294.	1.9	5
20	Evolution of microstructure and physical properties of lead-free Snâ€“5Sb-Ag rapidly solidified solder alloys. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
21	Gamma-ray shielding capacity of different B4C-, Re-, and Ni-based superalloys. European Physical Journal Plus, 2021, 136, 1.	2.6	9
22	Enhancing thermal, viscoelastic, and optical properties of biodegradable fullerene(C60)/agarose/chitosan composite films for biotechnology. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	4
23	The impact of Nd3+ ions on linear/nonlinear and the ionizing radiation attenuation parameters of TeO2-PbO-Y2O3 glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 17200-17219.	2.2	3
24	Synthesis, physical, linear optical and nuclear radiation shielding characteristics of B2O3â€“BaOâ€“PbOâ€“SrO2 glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 18163-18177.	2.2	4
25	Fabrication, physical, thermal and optical properties of oxyfluoride glasses doped with rare earth oxides. Journal of Materials Science: Materials in Electronics, 2021, 32, 18951-18967.	2.2	1
26	Novel negative capacitance, conductance at high and low frequencies in Au/Polypyrrole â€“MWCNT composite /TiO₂/Al₂O₃/n-Si structure. Materials Research Express, 2021, 8, 075003.	1.6	11
27	FT-IR, ultrasonic and dielectric characteristics of neodymium (III)/ erbium (III) lead-borate glasses: experimental studies. Journal of Materials Research and Technology, 2021, 13, 1363-1373.	5.8	40
28	Radiation shielding, optical, and physical properties of alkali borate glasses modified with Cu2+/Zn2+ ions. Journal of Materials Science: Materials in Electronics, 2021, 32, 19733-19741.	2.2	4
29	Physical, FTIR, ultrasonic, and dielectric characteristics of calcium lead-borate glasses mixed by Nd2O3/Er2O3 rare earths: experimental study. Journal of Materials Science: Materials in Electronics, 2021, 32, 19966-19979.	2.2	8
30	Newly Developed Vanadium-Based Glasses and Their Potential for Nuclear Radiation Shielding Aims: A Monte Carlo Study on Gamma Ray Attenuation Parameters. Materials, 2021, 14, 3897.	2.9	15
31	Er3+/Nd3+ ions reinforced lead-borate glasses: an extensive investigation of physical, linear optical characteristics, and photon shielding capacity. Journal of Materials Research and Technology, 2021, 14, 3161-3170.	5.8	11
32	Multivariable analysis for selection of natural fibers as fillers for a sustainable food packaging industry. Materials Research Express, 2021, 8, 095504.	1.6	10
33	Fabrication, DFT modeling, and photoelectronic characterizations of novel pyridinylcarbonylquinoline for promising potential energy conversion. Journal of Materials Research and Technology, 2021, 14, 3092-3110.	5.8	5
34	Investigation of thermomagnetic properties in Ca₃Co₂O₆ over cryogenic temperature between 0 and 100â€…K. Phase Transitions, 2021, 94, 835-841.	1.3	14
35	ZnO-Bi2O3-B2O3 glasses doped with rare earth oxides: Synthesis, physical, structural characteristics, neutron and photon attenuation attitude. Optik, 2021, 243, 167414.	2.9	9
36	Investigation of structural, electrical and optical properties of chitosan/fullerene composites. Materials Research Express, 2019, 6, 125304.	1.6	9

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37	Enhancement of the optical and mechanical properties of chitosan using Fe2O3 nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 10877-10884.	2.2	46
38	Room-Temperature Wet Chemical Synthesis of Au NPs/TiH2/Nanocarved Ti Self-Supported Electrocatalysts for Highly Efficient H2 Generation. ACS Applied Materials & Interfaces, 2017, 9, 30115-30126.	8.0	7
39	Electrical conductivity and dielectric relaxation of cerium (IV) oxide. Journal of Materials Science: Materials in Electronics, 2017, 28, 1501-1507.	2.2	14
40	Aluminum Titania Nanoparticle Composites as Nonprecious Catalysts for Efficient Electrochemical Generation of H₂. ACS Applied Materials & Interfaces, 2016, 8, 23655-23667.	8.0	25
41	Reduced graphene oxide nanosheets decorated with Au, Pd and Auâ€“Pd bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. Journal of Materials Chemistry A, 2015, 3, 20254-20266.	10.3	146
42	Microstructure Properties of Rapidly Solidified Al-Zn-Mg-Cu Alloys. Indian Journal of Materials Science, 2014, 2014, 1-6.	0.6	3
43	Microstructure and Microhardness Evolutions of High Fe Containing Near-Eutectic Al-Si Rapidly Solidified Alloy. Journal of Metallurgy, 2014, 2014, 1-8.	1.1	4
44	Development of Natural Blends for Removal of Organic Pollutants. Journal of Computational and Theoretical Nanoscience, 2014, 11, 1891-1898.	0.4	5
45	Microstructure and microhardness evolution of melt-spun Al-Si-Cu alloy. European Physical Journal Plus, 2014, 129, 1.	2.6	1
46	The influence of rapid solidification on the microstructure properties of Al-10Ni-10Ce alloy. European Physical Journal Plus, 2012, 127, 1.	2.6	1
47	Microstructure and physical properties of melt spun Al-17Âwt.% Ni-10Âwt.% Cu alloy. EPJ Applied Physics, 2010, 50, 21301.	0.7	4
48	Synthesis, Structure Investigation, DFT Analysis And Dielectric Characterization of Substituted Pyridinylidenepropanedinitrile (CMHQCPP) Nanostructure: Novel Approach. Journal of Inorganic and Organometallic Polymers and Materials, 0, , 1.	3.7	1